Application No.: 09/995519 Docket No.: RPI-011CPCN

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph for the abstract now appearing in the currently filed specification:

METHODS FOR MODULATING STIMULATING T CELL UNRESPONSIVENESS RESPONSIVENESS IN TUMOR CELLS

Abstract

Methods for modulating antigen-specific T cell unresponsiveness which involve inhibiting or stimulating an unresponsive T cell through a cell surface receptor, CD2, are disclosed. Agents which inhibit stimulation of an unresponsive T cell through a CD2 surface receptor are useful therapeutically in situations where it is desirable to inhibit an immune response to an antigen(s), for example in organ or bone marrow transplantation and autoimmune diseases. Methods for reversing T cell unresponsiveness by contacting the T cell with an agent which stimulates the T cell through a CD2 surface receptor are useful therapeutically to stimulate an immune response to an antigen(s). For example, the method is useful to stimulate an anti-tumor response in a subject with a tumor or stimulate a response against a pathogenic agent or increase the efficacy of vaccination.

Methods are provided for stimulating a T cell response to a tumor cell in a subject with a tumor by modifying the tumor cell to express CD59 and a CD28 or CTLA4 ligand. For example, the tumor cell may be obtained from the subject and modified ex vivo to form a modified tumor cell and then the modified tumor cell is administered to the subject.

Attachment:

Replacement Abstract